

Appl. No. 09/904,387  
Elction Dated May 19, 2004  
Reply to Office action of April 20, 2004

## CLAIMS

What is claimed is:

1. (previously presented) A slide for a gravity slide sorter comprising:

an inclined chute having a chute upper end, a bottom and two sides;

a first support bracket and a second support bracket, said first support bracket and said second support bracket each mounted to a side of the chute, each of said first and second support brackets having an upper edge distal said chute bottom;

each of said first and second support brackets having at least one alignment notch located on its upper edge;

a product guide supported by said support brackets;

said product guide having a guide upper end and two guide sides;

said product guide having at least one guide tab extending from each said guide side;

at least one guide tab receivable in each said at least one alignment notch of said first support bracket;

at least one guide tab receivable in each said at least one alignment notch of said second support bracket;

attachment means attaching said guide upper end to said chute upper end;

said attachment means limiting movement of said product guide laterally in relation to said chute bottom; and

said attachment means allowing relative movement of said product guide normal to said chute bottom.

2. (previously presented) The slide of claim 1 further including:

each of said first and second support brackets having at least one adjustment mechanism;

Appl. No. 09/904,387  
Election Dated May 19, 2004  
Reply to Office action of April 20, 2004

each said at least one adjustment mechanism operable to adjust the height of said bracket upper edges in relation to said chute bottom.

3. (previously presented) The slide of claim 1 wherein said attachment means comprising:

at least one elongated pin extending from said chute; and

at least one pin-receiving opening provided in said product guide.

4. (previously presented) The slide of claim 2 wherein said attachment means comprising:

at least one elongated pin extending from said chute; and

at least one pin-receiving opening provided in said product guide.

5. (previously presented) The slide of claim 1 wherein:

the product guide is constructed of a flexible material; and

the product guide flexibly moveable upwardly from the bottom of the chute responsive to forces imparted by a product intermediate the chute and the product guide.

6. (previously presented) The slide of claim 2 wherein:

the product guide is constructed of a flexible material; and

the product guide flexibly moveable upwardly from the bottom of the chute responsive to forces imparted by a product intermediate the chute and the product guide.

7. (previously presented) The slide of claim 1 wherein the chute further includes:

a plurality of channel dividers extending upwardly from the channel bottom; and

at least one of said plurality of channel dividers a different height from at least one other said plurality of channel dividers.

8. (previously presented) The slide of claim 1 wherein:

each said alignment notch defining a notch bottom and two notch edges; and

Appl. No. 09/904,387  
Election Dated May 19, 2004  
Reply to Office action of April 20, 2004

the notch edge distal said chute upper end comprising a tapered edge such that the notch opening is wider at the bracket upper edge than at the notch bottom.

9. (previously presented) The slide of claim 2 wherein:

each said alignment notch defining a notch bottom and two notch edges; and

the notch edge distal said chute upper end comprising a tapered edge such that the notch opening is wider at the bracket upper edge than at the notch bottom.

10. (original) The slide of claim 1 wherein the tabs are integral with the product guide.

11. (previously cancelled)

12. (previously cancelled)

13. (previously presented) The slide of claim 1 wherein:

said attachment means comprising at least two pins extending from said chute upper end and at least two pin-receiving openings in said product guide.

14. (previously presented) The slide of claim 2 wherein:

each said adjustment mechanism comprises a slotted opening in one of said first and second support mechanisms and a corresponding screw and threaded opening in a corresponding said chute side.

15 – 26. (withdrawn)